

CLAIMS

1. Coffee-maker able to function with cartridges, comprising a case (1) for reception of means for supplying hot water to an infusion head (8) in two parts: a fixed part forming a support
5 for at least one cartridge (2) and a movable part to open and close said infusion head (8), the two parts being maintained spaced apart by first elastic restoring means (14), a locking device (24) to maintain the infusion head (8) closed in
10 opposition to said restoring means and means for adjusting the infusion parameters adapted to emit at least one signal representative of the operating condition of the machine, characterized in that it has means for controlling the opening of said locking device at the end of a signal emitted by said
adjusting means.

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2. Coffee-maker according to claim 1, characterized in that said locking device (24) has a locking part (25) movable between a locked position and an unlocked position by being actuated by an electromagnet (30) controlled by said means for
20 controlling.

3. Coffee-maker according to one of the claims 1 or 2, characterized in that the movable part of the infusion head is a jaw (15) pivotably mounted with respect to a pivot axis (16)
25 of the case and said locking device (24) has a movable locking part (25) pivotable around an axis (27) parallel to the pivot axis (16) of said jaw.

4. Coffee-maker according to one of the claims 2 or 3, characterized in that said locking device (24) has second

elastic restoring means for returning said locking part (25) to the locked position.

5 5. Coffee-maker according to one of claims 3 to 4, characterized in that said locking part (25) comprises, in a plane perpendicular to its pivot axis (27), at a high part, a hook (26) cooperating with a locking pin (22) of the jaw (15), said hook (26) being prolonged downwards by a lever arm (29) intended to be actuated by said electromagnet (30).

10 6. Coffee-maker according to claim 5, characterized in that said locking part (25) comprises, at the external side of its pivot axis (27), a projecting part forming an operating button (33).

15 7. Coffee-maker according to one of the claims 5 or 6, characterized in that said lever arm (29) cooperates with a rod (31) crossing the width of the infusion head (8), said rod (31) cooperating at its end (32) with said electromagnet (30).

20 8. Coffee-maker according to one of the preceding claims, characterized in that said control means for said locking device (24) comprise a microcontroller connected to the means for adjusting the infusion parameters to control said electromagnet (30) as a function of said infusion parameters.

25 9. Coffee-maker according to claim 8, characterized in that said microcontroller is connected to at least one sensor representative of the state of an infusion parameter and it manages an infusion cycle according to the evolution of this
30 parameter.

10. Coffee-maker according to one of the claims 8 or 9,
characterized in that it comprises an electrical contact
actuated by the opening of said jaw and connected to said
microcontroller to enable it to detect the open or closed
5 position of the jaw.

11. Coffee-maker according to one of claims 8 to 10,
characterized in that said microcontroller is connected to a
sensor of a critical situation which controls the opening of
10 said jaw when a limit condition of this parameter has been
reached.